

# Freeform Search

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Database:	US Pre-Grant Publication Full-Text Database	
	US Patents Full-Text Database	
	US OCR Full-Text Database	
	EPO Abstracts Database	
	JPO Abstracts Database	
	Derwent World Patents Index	
	IBM Technical Disclosure Bulletins	
Term:	determin\$ near3 l1 near2 access\$	
Display:	20	Documents in Display Format:
Generate:	<input type="radio"/> Hit List <input checked="" type="radio"/> Hit Count <input type="radio"/> Side by Side <input type="radio"/> Image	

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## Search History

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DATE: Tuesday, June 06, 2006   [Printable Copy](#)   [Create Case](#)

Set Name	Query	Hit Count	Set Name
side by side			result set
<i>DB=PGPB,USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<u>L13</u>	l9 and l12	1	<u>L13</u>
<u>L12</u>	determin\$ near3 l1 near2 access\$	18	<u>L12</u>
<u>L11</u>	l5 near2 l6 near3 l1	6	<u>L11</u>
<u>L10</u>	l8 and L9	1	<u>L10</u>
<u>L9</u>	l5 near3 l1	87	<u>L9</u>
<u>L8</u>	l3 adj2 l4	181	<u>L8</u>
<u>L7</u>	l1 adj2 l1	312	<u>L7</u>
<u>L6</u>	state	3429802	<u>L6</u>
<u>L5</u>	cache adj2 line	10313	<u>L5</u>
<u>L4</u>	counter	910357	<u>L4</u>
<u>L3</u>	prefetch\$	10785	<u>L3</u>
<u>L2</u>	nonspeculative	102	<u>L2</u>
<u>L1</u>	speculative	6682	<u>L1</u>

END OF SEARCH HISTORY

# Freeform Search

Database:

US Pre-Grant Publication Full-Text Database  
US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

Term:

(speculative near3 cach\$) and pollution

Display:

20

Documents in Display Format:

Starting with Number 1

Generate: ☐ Hit List ☒ Hit Count ☐ Side by Side ☐ Image

Search

Clear

Interrupt

## Search History

DATE: Tuesday, June 06, 2006 [Printable Copy](#) [Create Case](#)

Set Name Query  
side by side

Hit Count Set Name  
result set

DB=PGPB,USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

L1 (speculative near3 cach\$) and pollution

17 L1

END OF SEARCH HISTORY

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Results for "(((speculative and cache) &lt;in&gt; metadata)) &lt;and&gt; (processor &lt;in&gt; metadata))"

Your search matched 3 of 103 documents. You selected 3 items.

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Citation &amp; Abstract

Article Information

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» Key

IEEE JNL	IEEE Journal or Magazine
IEEE JNL	IEEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEEE CNF	IEEE Conference Proceeding
IEEE STD	IEEE Standard

### 1. Using incorrect speculation to prefetch data in a concurrent multithreaded processor

Ying Chen; Sendag, R.; Lija, D.J.

Parallel and Distributed Processing Symposium, 2003. Proceedings. International

22-26 April 2003

Page(s): 9 pp.-

Digital Object Identifier 10.1109/IPDPS.2003.1213177

**Summary:** Concurrent multithreaded architectures exploit both instruction-level and thread-level parallelism through a combination of branch prediction and thread-level control speculation. The resulting speculative issuing of load instructions in these archi....

[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)

### 2. Accurate modeling of aggressive speculation in modern microprocessor architectures

Modi, H.; Spracklen, L.; Chou, Y.; Abraham, S.G.

Modeling, Analysis, and Simulation of Computer and Telecommunication Systems, 2005. 13th IEEE
International Symposium on

27-29 Sept. 2005

Page(s): 75- 84

Digital Object Identifier 10.1109/MASCOTS.2005.12

**Summary:** Computer architects utilize cycle simulators to evaluate microprocessor chip design tradeoffs and estimate performance metrics. Traditionally, cycle simulators are either trace-driven or execution-driven. In this paper, we describe ValueSim, a softw....

[AbstractPlus](#) | Full Text: [PDF](#) [IEEE CNF](#)

### 3. An analysis of the performance impact of wrong-path memory references on out-of-order and runahead execution processors

Mutlu, O.; Kim, H.; Armstrong, D.N.; Patt, Y.N.

Computers, IEEE Transactions on

Volume: 54 Issue: 12 Dec. 2005

Page(s): 1556- 1571

Digital Object Identifier 10.1109/TC.2005.190

**Summary:** High-performance, out-of-order execution processors spend a significant portion of their execution time on the incorrect program path even though they employ aggressive branch prediction algorithms. Although memory references generated on the wrong ....

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Search Query Display.

Select a search number (#)  
t :

- Add a query to the Search Query Display
- Combine search queries using AND, OR, or NOT
- Delete a search
- Run a search

Tue, 6 Jun 2006, 1:36:01 PM EST

Search Query Display

Recent Search Queries

		Results
#1	((speculative and cache)<in>metadata)	103
#2	(((speculative and cache)<in>metadata))<AND>(pollution<in>metadata))	3
#3	(((speculative and cache)<in>metadata))<AND>(pollution<in>metadata))	3